PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 8807 WO RO-HA	FOR FURTHER ACTION	N See Form PCT/IPEA/416	See Form PCT/IPEA/416	
International application No.	International filing date (day/	/month/year) Priority date (day/month/year)		
PCT/EP2004/010292	15.09.2004	13.10.2003		
International Patent Classification (IPC) or na	tional classification and IPC			
F16H63/20, F16H61/28	.			
, ,				
Applicant				
ZF FRIEDRICHSHAFEN A	.G			
This report is the international prel under Article 35 and transmitted to t	•	tablished by this International Preliminary Examining Aut le 36.	hority	
2. This REPORT consists of a total of	4	sheets, including this cover sheet.		
3. This report is also accompanied by A	ANNEXES, comprising:			
a. (sent to the applicant and	d to the International Bureau) a	sheets, as follows	s:	
		which have been amended and are the basis for this report a		
sheets containing range Instructions).	ectifications authorized by this a	Authority (see Rule 70.16 and Section 607 of the Administ	rative	
l l l		this Authority considers contain an amendment that goes befiled, as indicated in item 4 of Box No. I and the Supplementary	•	
	l Rureau only) a total of (indicat	te type and number of electronic carrier(s))		
(sem to the International	Dureau only) a total of (malear	· ·		
related thereto, in compute	er readable form only, as indica	, containing a sequence listing and/or to ated in the Supplemental Box Relating to Sequence Listing		
Section 802 of the Admini	•			
4. This report contains indications relat	ting to the following items:			
Box No. I Basis of th	ne report			
Box No. II Priority				
Box No. III Non-establ	lishment of opinion with regard	to novelty, inventive step and industrial applicability		
Box No. IV Lack of un	ity of invention			
DON TIOL V	statement under Article 35(2) wind explanations supporting such	vith regard to novelty, inventive step or industrial applicabili a statement	ity;	
Box No. VI Certain do	cuments cited			
Box No. VII Certain de	fects in the international applica	ntion		
Box No. VIII Certain ob	servations on the international a	application		
Date of submission of the demand				
Name and mailing address of the IPEA/EP		rized officer		
To animila Na	Talanh	nana Na		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/010292

Box	No. I	I Basis of the report	
1.		h regard to the language, this report is based on the internation cated under this item.	nal application in the language in which it was filed, unless otherwise
		This report is based on translations from the original language which is the language of a translation furnished for the purpose.	ge into the following language, osses of:
		international search (Rule 12.3 and 23.1(b))	
		publication of the international application (Rule 12.4	
	*****	international preliminary examination (Rule 55.2 and	
2.	rece		report is based on (replacement sheets which have been furnished to the e referred to in this report as "originally filed" and are not annexed to
		the international application as originally filed/furnished	
	\bowtie	the description:	
		pages 1-11	as originally filed/furnished
		pages*	received by this Authority on
		pages*	received by this Authority on
	\boxtimes	the claims:	
		nos. <u>1–13</u>	as originally filed/furnished
		nos.*	as amended (together with any statement) under Article 19
		nos.*	received by this Authority on
		nos.*	received by this Authority on
	\boxtimes	the drawings:	
		sheets 1/2-2/2	as originally filed/furnished
			received by this Authority on
		sheets*	received by this Authority on
		a sequence listing and/or any related table(s) – see Supplement	
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fi	Iments annexed to this report and listed below had not been made, since led, as indicated in the Supplemental Box (Rule 70.2(c)).
		the description, pages	
		the claims, nos.	
		the drawings, sheets/figs	
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	erseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/010292

Вох	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims	1-13	YES
		Claims		NO
	Inventive step (IS)	Claims	1-13	YES
		Claims		NO
	Industrial applicability (IA	Claims	1-13	YES
		Claims		NO
2.	Citations and explanations (Re	ule 70.7)		

- 1 This report makes reference to the following documents:
 - D1: DE 198 43 584 A (ZAHNRADFABRIK FRIEDRICHSHAFEN) (2000-03-30)
- Document D1 is considered the closest prior art and discloses (the references between parentheses refer to that document): a switching device for a gear, with a selector shaft, on which selector forks are arranged such that they can be axially displaced, with a selector device (14) for selecting a selector fork, and with locking devices (31) which prevent the non-selected selector forks from moving, the locking devices (31) being arranged on an additional shaft which is parallel to the selector shaft.

The subject matter of independent claim 1 differs therefrom in that:

an actuator is provided and axially displaces the selector shaft in order to carry out the switching procedure,

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;		
	citations and explanations supporting such statement		
	elements of the selector device are provided on		
	the additional shaft, and		
	an additional actuator is provided and rotates the		
	additional shaft.		
2.1	The subject matter of claim 1 is thus novel (PCT		
	Article 33(2)).		
	The current invention can therefore be considered		
	to address the problem of		
	developing an alternative to existing switching		
	devices which allows simple actuation using		
	actuators.		
2.2	The solution to this problem as proposed in		
	claim 1 of the present application involves an		
	inventive step (PCT Article 33(3)) for the		
	following reasons:		
	the combination of features is not obvious to a		
	person skilled in the art.		
2.3	Claims 2-13 are dependent on claim 1 and therefore		
	likewise meet the PCT requirements for novelty and		
	inventive step.		